

CLAIMS

What is Claimed is:

1. A device having user proximity detection comprising:
5 a first circuit comprising an antenna; and
a second circuit coupled to said antenna, said second
circuit operable to detect a change in an operating
characteristic of said antenna due to user proximity,
wherein said change in said operating characteristic is
10 detected based on a change in resonant frequency of said
first circuit.
2. The device of Claim 1, wherein user proximity causes
said resonant frequency to move closer to a frequency at
15 which said antenna is operated.
3. The device of Claim 1, wherein user proximity causes
said resonant frequency to move farther from a frequency at
which said antenna is operated.
- 20 4. The device of Claim 1, wherein said second circuit is
operable to detect a change in impedance of said antenna.

5. The device of Claim 1, wherein said second circuit comprises a voltmeter.

6. The device of Claim 1, further comprising a circuit
5 operable to control state of said device, wherein said state is based on said operating characteristic of said antenna.

7. The device of Claim 1, wherein said device is operated
10 in a power saving mode when said operating characteristic indicates that a user is not proximate said antenna.

8. The device of Claim 1, wherein said device is operated
in a radio frequency transmission mode when said operating
15 characteristic indicates that a user is proximate said antenna.

9. A device comprising:
a radio transceiver;
20 an antenna coupled to said radio transceiver; and
a circuit coupled to said antenna, said circuit
operable to detect capacitive loading of said antenna based

on a change in resonant frequency of a circuit comprising
said antenna.

10. The device of Claim 9, wherein user proximity causes
5 said resonant frequency to move closer to a frequency at
which said antenna is operated.

11. The device of Claim 9, wherein user proximity causes
said resonant frequency to move farther from a frequency at
10 which said antenna is operated.

12. The device of Claim 9, wherein said circuit comprises
a voltmeter.

15 13. The device of Claim 9, further comprising a circuit
operable to control a power state of said device, wherein
said state is based on said operating characteristic of
said antenna.

20 14. A wireless data input device comprising:
a radio transceiver;
an antenna coupled to said radio transceiver; and

a first circuit coupled to said antenna, said first circuit operable to detect a change in resonant frequency of a second circuit comprising said antenna, wherein said first circuit is further operable to cause said radio
5 transceiver to be operated in a power operational mode based on said resonant frequency.

15. The device of Claim 14, wherein said radio transceiver is operated in a low power operational mode when said
10 operating characteristic indicates that a user is not proximate said radio transceiver, based on said resonant frequency.

16. The device of Claim 14, wherein said radio transceiver
15 is operated in a high power operational mode when said operating characteristic indicates that a user is proximate said radio transceiver, based on said resonant frequency.

17. The device of Claim 14, wherein said antenna is tuned
20 away from said resonant frequency of said second circuit with no user loading to said antenna and user proximity causes said resonant frequency of said second circuit to move closer to a frequency at which said antenna is tuned.

18. The device of Claim 14, wherein said antenna is tuned
near said resonant frequency of said second circuit with no
user loading to said antenna and user proximity causes said
5 resonant frequency to move farther from a frequency at
which said antenna is tuned.